Amendments to the Claims

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1. (Cancelled)

2. (Previously presented) An isolated DNA comprising a nucleic acid sequence that encodes an amino acid sequence comprising SEQ ID NO:12.

3. (Previously presented) An isolated DNA comprising a nucleic acid sequence consisting of SEQ ID NO:13.

4.- 5. (Cancelled)

6. (Currently amended) An isolated nucleic acid that encodes a fusion protein, the nucleic acid comprising a nucleic acid sequence [[encoding a fusion protein]] [[comprising]] consisting of:

(a) (i) a nucleotide sequence that encodes SEQ ID NO:12 or (ii) a segment of SEQ ID NO:13 that is at least fifteen nucleotides long, the segment encoding [[or]] an antigenic fragment [[thereof]] of SEQ ID NO:12; and

(b) a [[heterologous]] sequence encoding a heterologous polypeptide.

7. – 19. (Cancelled)

20. (Currently amended) A vector comprising the isolated DNA of claim [[1]] 2.

21. (Currently amended) The vector of claim 20, wherein the nucleic acid sequence is operably linked to a regulatory element [[which]] that allows expression of said nucleic acid sequence in a cell.

22. (Currently amended) ~~A cultured~~ An isolated cell comprising the vector of claim 21.

23. (Previously presented) A method of producing a polypeptide, the method comprising culturing the cell of claim 22 and purifying the polypeptide from the cell.

24. (Previously presented) A vector comprising the isolated nucleic acid of claim 6.

25. (Currently amended) The vector of claim 24, wherein the nucleic acid is operably linked to a regulatory element [[which]] that allows expression of said nucleic acid in a cell.

26. (Currently amended) [[A]] An isolated cell comprising the vector of claim 24.

27. (Previously presented) A method of producing a fusion protein, the method comprising culturing the cell of claim 26 and purifying the fusion protein from the cell.

28. – 37. (Cancelled)

38. (Currently amended) ~~The DNA of claim 1, wherein the nucleic acid sequence consists of SEQ ID NO:1~~.

An isolated DNA comprising:

(a) a nucleic acid sequence that (i) encodes a polypeptide that enhances spreading of a macrophage or a monocyte and (ii) hybridizes to the complement of SEQ ID NO:13 under the following conditions: hybridization in 6 X SSC at 30°C, followed by one or more washes in 0.2 X SSC and 0.1% sodium dodecyl sulfate (SDS) at 50°C to 65°C, wherein the nucleic acid sequence consists of SEQ ID NO:1; or

(b) the complement of the nucleic acid sequence.

39. (Currently amended) ~~The DNA of claim 1, wherein the nucleic acid sequence consists of SEQ ID NO:11.~~

An isolated DNA comprising:

(a) a nucleic acid sequence that (i) encodes a polypeptide that enhances spreading of a macrophage or a monocyte and (ii) hybridizes to the complement of SEQ ID NO:13 under the following conditions: hybridization in 6 X SSC at 30°C, followed by one or more washes in 0.2 X SSC and 0.1% sodium dodecyl sulfate (SDS) at 50°C to 65°C, wherein the nucleic acid sequence consists of SEQ ID NO:11; or

(b) the complement of the nucleic acid sequence.

40. (Currently amended) ~~The DNA of claim 1, wherein the nucleic acid sequence consists of SEQ ID NO:19.~~

An isolated DNA comprising:

(a) a nucleic acid sequence that (i) encodes a polypeptide that enhances spreading of a macrophage or a monocyte and (ii) hybridizes to the complement of SEQ ID NO:13 under the following conditions: hybridization in 6 X SSC at 30°C, followed by one or more washes in 0.2 X SSC and 0.1% sodium dodecyl sulfate (SDS) at 50°C to 65°C, wherein the nucleic acid sequence consists of SEQ ID NO:19; or

(b) the complement of the nucleic acid sequence.

41. - 45. (Cancelled)

46. (Currently amended) The isolated nucleic acid of claim 6, wherein the heterologous ~~sequence~~ polypeptide comprises a signal peptide, a reporter polypeptide, or an immunoglobulin constant region.

47. (Currently amended) An isolated DNA [[encoding a polypeptide comprising an antigenic fragment of SEQ ID NO:12]] consisting of a segment of SEQ ID NO:13 that is at least fifteen nucleotides long, wherein the segment encodes an antigenic fragment of SEQ ID NO:12 .

48. (Cancelled).

49. (Currently amended) An isolated DNA comprising a nucleic acid sequence that encodes a polypeptide ~~comprising~~ consisting of ~~an amino acid sequence consisting of~~ the following segments in contiguous order, starting from the N-terminus of the amino acid sequence:

(a) amino acids 1-30 of SEQ ID NO:12;

(b) ~~(1) none to all of~~ amino acids 31-104 of SEQ ID NO:12 ~~or (2) the segment of (b) (1) but comprising one or more conservative substitutions~~;

(c) amino acids 105-1267 of SEQ ID NO:12; and

(d) ~~(i) none to all of~~ amino acids 1268-1429 of SEQ ID NO:12 or amino acids 1194-1999 of SEQ ID NO:2 ~~(ii) the segment of (d) (i) but comprising one or more conservative substitutions~~,

wherein the polypeptide enhances spreading of a macrophage or a monocyte.

50. (Currently amended) The DNA of claim [[48]] 49, wherein the polypeptide comprises amino acids [[31-104 of SEQ ID NO:12]] 1194-1999 of SEQ ID NO:2.

51. (Currently amended) The DNA of claim [[48]] 49, wherein the polypeptide comprises amino acids 1268-1429 of SEQ ID NO:12.

52. – 56. (Cancelled)

57. (New) A vector comprising the isolated DNA of claim 47.

58. (New) The vector of claim 57, wherein the nucleic acid sequence is operably linked to a regulatory element that allows expression of the nucleic acid sequence in a cell.

59. (New) An isolated cell comprising the vector of claim 58.

60. (New) A method of producing a polypeptide, the method comprising culturing the cell of claim 59 and purifying the polypeptide from the cell.

61. (New) A vector comprising the isolated DNA of claim 49.

62. (New) The vector of claim 61, wherein the nucleic acid sequence is operably linked to a regulatory element that allows expression of the nucleic acid sequence in a cell.

63. (New) An isolated cell comprising the vector of claim 62.

64. (New) A method of producing a polypeptide, the method comprising culturing the cell of claim 63 and purifying the polypeptide from the cell.

65. (New) The nucleic acid of claim 6, wherein the segment is at least 50 nucleotides long.

66. (New) The nucleic acid of claim 6, wherein the segment is at least 100 nucleotides long.

67. (New) The nucleic acid of claim 6, wherein the segment is at least 300 nucleotides long.

68. (New) The nucleic acid of claim 6, wherein the segment is at least 800 nucleotides long.

69. (New) The nucleic acid of claim 6, wherein the segment is at least 1,500 nucleotides long.

70. (New) The nucleic acid of claim 6, wherein the segment is at least 3,000 nucleotides long.

71. (New) The nucleic acid of claim 6, wherein the segment is at least 4,000 nucleotides long.

72. (New) The DNA of claim 47, wherein the segment is at least 50 nucleotides long.

73. (New) The DNA of claim 47, wherein the segment is at least 100 nucleotides long.

74. (New) The DNA of claim 47, wherein the segment is at least 300 nucleotides long.

75. (New) The DNA of claim 47, wherein the segment is at least 800 nucleotides long.

76. (New) The DNA of claim 47, wherein the segment is at least 1,500 nucleotides long.

77. (New) The DNA of claim 47, wherein the segment is at least 3,000 nucleotides long.

78. (New) The DNA of claim 47, wherein the segment is at least 4,000 nucleotides long.

79. (New) An isolated DNA comprising a nucleic acid sequence that encodes a polypeptide consisting of the following segments in contiguous order, starting from the N-terminus of the amino acid sequence:

(a) amino acids 1-30 of SEQ ID NO:12;

(b) amino acids 105-1267 of SEQ ID NO:12; and

(c) amino acids 1268-1429 of SEQ ID NO:12,

wherein the polypeptide enhances spreading of a macrophage or a monocyte.

80. (New) A vector comprising the isolated DNA of claim 79.

81. (New) The vector of claim 80, wherein the nucleic acid sequence is operably linked to a regulatory element that allows expression of the nucleic acid sequence in a cell.

82. (New) An isolated cell comprising the vector of claim 81.

83. (New) A method of producing a polypeptide, the method comprising culturing the cell of claim 82 and purifying the polypeptide from the cell.